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Claims

1. Method for managing radio resources in a cellular radio communications system configured as a multi-carrier system, with
- information being transmitted on at least one frequency band,
 - at least one frequency band having several sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6),
- characterized in that
- the sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) of the at least one frequency band of each radio cell are temporarily available for the transmission of information
- and
- the several sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) of the at least one frequency band are temporarily assigned to a number of radio cells comprising at least two radio cells in such a way that each of the assigned sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) is available to a subset of the number of radio cells for the transmission of information.
2. Method in accordance with Claim 1, characterized in that at least one of the assigned sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) is available to exactly one radio cell from the number of radio cells.
3. Method in accordance with Claim 1 or 2, characterized in that each of the assigned sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) is available to exactly one radio cell from the number of radio cells.

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4. Method in accordance with one of Claims 1 to 3,
characterized in that the number of radio cells consists
of a number of adjacent radio cells.
- 5 5. Method in accordance with one of Claims 1 to 4,
characterized in that with an assignment of the sub-
carriers (ST1, ST2, ST3, ST4, ST5, ST6) to n radio cells,
sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) available to
at least one radio cell have a frequency spacing of n
10 sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6).
6. Method in accordance with one of Claims 1 to 5,
characterized in that with the assignment of the sub-
carriers (ST1, ST2, ST3, ST4, ST5, ST6) sub-carriers
15 (ST1, ST2, ST3, ST4, ST5, ST6) available to at least one
radio cell are sub-carriers (ST1, ST2, ST3, ST4, ST5,
ST6) adjacent in the frequency band.
7. Method in accordance with one of Claims 1 to 6,
20 characterized in that the assignment of the sub-carriers
(ST1, ST2, ST3, ST4, ST5, ST6) takes place in accordance
with an algorithm that includes the use of a code.
8. Method in accordance with one of Claims 1 to 7,
25 characterized in that the assigned sub-carriers (ST1,
ST2, ST3, ST4, ST5, ST6) are used by the base stations of
the particular radio cells for the transmission of
broadcast information.
- 30 9. Method in accordance with Claim 8, characterized in that
the broadcast information is used to decide on handovers.

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10. Method in accordance with Claim 8 or 9 characterized in that the amplitudes of the broadcast information are determined in the subscriber stations receiving the broadcast information.

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11. Method in accordance with Claim 10, characterized in that a metric of the amplitudes of the broadcast information transmitted from a base station on the sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) available to it is determined.

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12. Method in accordance with one of Claims 1 to 11, characterized in that it is used on an OFDM system.

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13. Radio communication system of cellular construction, that is configured as a multi-carrier system,

- including at least two radio cells and at least one control device in the network,

- with at least one frequency band that has several sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) for transmission of information in the radio cells,

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characterized in that

- the at least one control device in a network has means for the temporary assignment of the several sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) of at least one frequency band to the radio cells in such a way that the sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) are available to each radio cell for the transmission of information and

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- at least one control device in the network has means for the temporary assignment of the several sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) of the at least one frequency band among a number of radio cells comprising at least two radio cells in such a

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way that each of the assigned sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) is available to a subset of the number of radio cells for the transmission of information.

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14. Control device of a radio communication system of cellular construction, that is configured as a multi-carrier system,

- having at least two radio cells,
- 10 - with at least one frequency band that has several sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) for the transmission of information in the radio cells, characterized in that
 - it has means for the temporary assignment of the
 - 15 several sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) of the at least one frequency band to the radio cells in such a way that the sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) are available to each radio cell for the transmission of information and
 - 20 - it has means for the temporary assignment of the several sub-carriers (ST1, ST2, ST3, ST4, ST5, ST6) of the at least one frequency band among a number of radio cells comprising at least two radio cells in such a way that each of the assigned sub-carriers
 - 25 (ST1, ST2, ST3, ST4, ST5, ST6) is available to a subset of the number of radio cells for the transmission of information.